

Таблица степени черноты, Росселандова и Планковского среднего  
 Таблица из книги Авиловой И.В., Бибермана Л.М. и др. "Оптические свойства горячего воздуха"  
 М.: Из-во Наука. 1970, стр. 320

T=8000 K

P=0,001 атм

	1	2	3	4	5	6	7
1	99-09	12-07	46-07	74-08	16-08	28-09	15-06
3	30-08	35-07	14-06	22-07	48-08	85-09	26-05
5	50-08	58-07	23-06	37-07	80-08	14-08	33-05
10	99-08	12-06	46-06	75-07	16-07	29-08	42-05
20	20-07	23-06	93-06	15-06	32-07	59-08	49-05
30	30-07	35-06	14-05	23-06	49-07	90-08	52-05
100	99-07	12-05	46-05	76-06	16-06	30-07	63-05
300	30-06	35-05	13-04	23-05	49-06	92-07	71-05
A	27 04	66 07	15 08	14 09	87 08	22 09	91 07
B	50-09	59-08	23-07	39-08	84-09	16-09	17-05
1	50-09	59-08	23-07	39-08	84-09	16-09	11-05
3	15-08	18-07	70-07	12-07	25-08	49-09	20-05
5	25-08	29-07	12-06	19-07	42-08	82-09	26-05
10	50-08	59-07	23-06	39-07	84-08	16-08	36-05
20	99-08	12-06	46-06	77-07	17-07	33-08	45-05
30	15-07	18-06	70-06	12-06	25-07	49-08	50-05
100	50-07	59-06	23-05	39-06	84-07	16-07	61-05
300	15-06	18-05	68-05	12-05	25-06	49-07	69-05

P=0,01 атм

	1	2	3	4	5	6	7
1	12-07	13-06	52-06	10-08	54-07	12-07	44-05
3	35-07	40-06	15-05	31-08	16-06	35-07	53-05
5	58-07	66-06	26-05	51-08	27-06	58-07	58-05
10	12-06	13-05	52-05	10-05	54-06	12-06	84-05
20	23-08	26-05	10-04	20-05	11-05	23-06	70-05
30	35-06	40-05	15-04	31-05	16-05	35-06	75-05
100	12-05	13-04	42-04	10-04	54-05	12-05	89-05
300	34-05	40-04	97-04	26-04	16-04	35-05	12-04
A	24 03	53 06	91 06	77 07	34 07	84 07	14 06
B	58-08	67-07	26-06	54-07	27-07	84-08	19-04
1	58-08	67-07	26-06	54-07	27-07	64-08	38-05
3	17-07	20-06	78-06	16-06	82-07	19-07	51-05
5	29-07	33-06	13-05	27-06	14-06	32-07	56-05
10	58-07	67-06	26-05	54-06	27-06	64-07	82-05
20	12-06	13-05	52-05	11-05	55-06	13-06	69-05
30	17-06	20-05	77-05	18-05	82-06	19-06	73-05
100	58-06	67-05	24-04	54-05	27-05	64-06	86-05
300	17-05	20-04	62-04	16-04	82-05	19-05	11-04

P=0,03 атм

	1	2	3	4	5	6	7
1	37-07	41-06	16-05	38-06	29-06	83-07	54-05
3	11-06	12-05	48-05	11-05	88-06	25-06	65-05
5	19-06	21-05	79-05	19-05	14-05	42-06	71-05
10	37-06	41-05	16-04	38-05	29-05	83-06	79-05
20	75-06	83-05	26-04	78-05	58-05	17-05	92-05
30	11-05	12-04	38-04	11-04	88-05	25-05	10-04

100	37-05	41-04	98-04	38-04	29-04	83-05	15-04
300	11-04	12-03	22-03	10-03	87-04	25-04	26-04
A	73 02	15 06	22 06	17 07	67 06	10 07	19-05
B	19-07	21-06	80-06	20-06	15-06	45-07	58-04
1	19-07	21-06	80-06	20-06	15-06	45-07	51-05
3	58-07	63-06	24-05	61-06	44-06	13-06	62-05
5	94-07	10-05	40-05	10-05	73-06	22-06	69-05
10	19-06	21-05	80-05	20-05	15-05	45-06	76-05
20	37-06	48-05	16-04	41-05	29-05	89-06	89-05
30	56-06	63-05	23-04	61-05	44-05	13-05	96-05
100	19-05	21-04	66-04	20-04	15-04	45-05	14-04
300	56-05	63-04	15-03	60-04	44-04	13-04	20-04

P=0,1 атм

	1	2	3	4	5	6	7
1	14-06	14-05	54-05	17-05	18-05	82-06	71-05
3	42-06	44-05	15-04	52-05	55-05	25-05	93-05
5	66-06	73-05	27-04	87-05	92-05	41-05	11-04
10	14-05	14-04	48-04	17-04	18-04	82-05	14-04
20	28-05	29-04	78-04	35-04	37-04	16-04	20-04
30	41-05	44-04	11-03	52-04	55-04	25-04	24-04
100	13-04	14-03	25-03	10-03	18-03	82-04	52-04
300	38-04	43-03	58-03	46-03	55-03	24-03	12-03
A	20 02	35 05	44 05	31 06	11 06	14 06	21 04
B	70-07	75-06	27-05	94-06	92-06	42-06	19-03
1	70-07	75-06	27-05	94-06	92-06	41-06	68-06
3	21-06	22-05	82-05	28-05	28-05	12-05	88-05
5	35-06	37-05	14-04	47-05	46-05	21-05	10-04
10	70-06	75-05	27-04	94-05	92-05	41-05	13-04
20	14-05	15-04	51-04	19-04	18-04	83-05	16-04
30	21-05	22-04	72-04	28-04	28-04	12-04	19-04
100	69-05	75-04	18-03	94-04	92-04	41-04	36-04
300	20-04	22-03	40-03	27-03	28-03	12-03	72-04

P=0,3 атм

	1	2	3	4	5	6	7
1	48-06	47-05	17-04	77-05	99-05	67-05	12-04
3	14-05	14-04	45-04	23-04	30-04	20-04	21-04
5	24-05	24-04	75-04	38-04	49-04	34-04	29-04
10	40-05	47-04	12-03	77-04	99-04	87-04	45-04
20	95-05	94-04	21-03	15-03	20-03	13-03	74-04
30	14-04	14-03	28-03	23-03	30-03	20-03	10-03
100	44-04	47-03	69-03	72-03	98-03	66-03	27-03
300	12-03	14-02	17-02	21-02	29-02	20-02	67-03
A	57 01	89 04	92 04	60 05	20 05	21 05	26 03
B	24-06	24-05	84-05	42-05	50-05	34-05	57-03
1	24-06	24-05	84-05	42-05	49-05	34-05	11-04
3	73-06	73-05	25-04	13-04	15-04	10-04	16-04
5	12-05	12-04	41-04	21-04	25-04	17-04	21-04
10	24-05	24-04	78-04	42-04	49-04	34-04	31-04
20	48-05	49-04	14-03	84-04	99-04	67-04	48-04
30	72-05	73-04	19-03	13-03	15-03	10-03	62-04
100	24-04	24-03	40-03	41-03	49-03	34-03	15-03
300	67-04	73-03	11-02	12-02	15-02	10-02	41-03

P=1 атм

	1	2	3	4	5	6	7
1	21-05	16-04	58-04	43-04	61-04	68-04	44-04
3	63-05	54-04	18-03	13-03	18-03	20-03	10-03
5	10-04	90-04	22-03	21-03	30-03	34-03	15-03
10	20-04	18-03	40-03	43-03	60-03	67-03	27-03
20	39-04	36-03	67-03	85-03	12-02	13-02	49-03
30	57-04	54-03	93-03	12-02	18-02	20-02	69-03
100	16-03	16-02	24-02	40-02	58-02	82-02	17-02
300	39-03	51-02	02-02	12-01	16-01	16-01	35-02
A	13 01	16 04	15 04	91 04	27 04	23 04	21 02
B	11-05	96-05	30-04	23-04	30-04	34-04	18-02
1	11-05	96-05	30-04	23-04	30-04	34-04	30-04
3	32-05	29-04	80-04	70-04	91-04	10-03	61-04
5	53-05	40-04	13-03	12-03	15-03	17-03	90-04
10	10-04	90-04	24-03	23-03	30-03	34-03	16-03
20	21-04	19-03	42-03	47-03	61-03	68-03	28-03
30	31-04	29-03	58-03	70-03	91-03	10-02	41-03
100	95-04	95-03	15-02	23-02	30-02	33-02	11-02
300	25-03	28-02	37-02	86-02	88-02	94-02	26-02

P=3 атм

	1	2	3	4	5	6	7
1	94-05	86-04	17-03	21-03	29-03	54-03	22-03
3	27-04	20-03	48-03	62-03	88-03	18-02	58-03
5	44-04	33-03	68-03	10-02	15-02	26-02	84-03
10	63-04	68-03	12-02	21-02	29-02	50-02	14-02
20	15-03	13-02	21-02	41-02	56-02	94-02	24-02
30	21-03	19-02	30-02	60-02	83-02	13-01	31-02
100	53-03	62-02	83-02	19-01	24-01	34-01	50-02
300	10-02	17-01	20-01	52-01	98-01	64-01	60-02
A	30 00	56 03	49 03	17 04	42 03	28 03	22 01
B	48-05	38-04	94-04	11-03	15-03	28-03	47-02
1	48-05	36-04	93-04	11-03	15-03	27-03	12-03
3	14-04	11-03	26-03	34-03	44-03	82-03	31-03
5	23-04	18-03	40-03	57-03	74-03	14-02	50-03
10	46-04	36-03	72-03	11-02	15-02	27-02	88-03
20	87-04	71-03	13-02	23-02	29-02	52-02	18-02
30	12-03	11-02	18-02	34-02	44-02	77-02	22-02
100	35-03	35-02	50-02	11-01	14-01	22-01	46-02
300	77-03	10-01	13-01	32-01	38-01	49-01	60-02

P=10 атм

	1	2	3	4	5	6	7
1	58-04	32-03	59-03	12-02	15-02	46-02	12-02
3	15-03	97-03	17-02	36-02	45-02	12-01	27-02
5	23-03	16-02	25-02	59-02	74-02	18-01	37-02
10	40-03	32-02	47-02	12-01	14-01	31-01	48-02
20	64-03	62-02	82-02	23-01	26-01	48-01	56-02
30	81-03	90-02	12-01	33-01	36-01	60-01	61-02
100	14-02	26-01	30-01	94-01	85-01	10 00	66-02
300	17-02	58-01	80-01	20 00	13 00	12 00	66-02
A	45-01	81 02	67 02	38 03	14 03	77 02	22 00
B	32-04	18-03	35-03	65-03	78-03	25-02	12-01
1	31-04	18-03	33-03	65-03	78-03	24-02	78-03
3	88-04	53-03	94-03	20-02	23-02	69-02	18-02

5	14-03	88-03	14-02	33-02	38-02	11-01	27-02
10	25-03	18-02	27-02	65-02	76-02	20-01	42-02
20	44-03	35-02	50-02	13-01	15-01	35-01	56-02
30	59-03	52-02	70-02	19-01	22-01	46-01	61-02
100	12-02	16-01	20-01	60-01	60-01	88-01	66-02
300	16-02	42-01	45-01	15 00	12 00	12 00	66-02

P=30 атм

	1	2	3	4	5	6	7
1	29-03	17-02	22-02	57-02	68-02	22-01	40-02
3	63-03	48-02	59-02	16-01	19-01	46-01	54-02
5	86-03	78-02	95-02	27-01	29-01	82-01	60-02
10	12-02	15-01	17-01	51-01	50-01	84-01	65-02
20	15-02	26-01	28-01	92-01	80-01	10 00	68-02
30	16-02	36-01	39-01	13 00	10 00	12 00	66-02
100	17-02	80-01	76-01	28 00	15 00	13 00	66-02
300	17-02	12 00	98-01	40 00	17 00	14 00	66-02
A	68-02	12 02	91 01	50 02	12 02	42 01	34-01
B	22-03	92-03	12-02	33-02	36-02	16-01	29-01
1	18-03	92-03	12-02	33-02	35-02	14-01	30-02
3	44-03	27-02	33-02	98-02	10-01	33-01	52-02
5	63-03	45-02	52-02	16-01	17-01	47-01	60-02
10	97-03	88-02	98-02	32-01	31-01	70-01	65-02
20	13-02	17-01	18-01	61-01	56-01	95-01	66-02
30	15-02	24-01	25-01	88-01	75-01	11 00	66-02
100	17-02	63-01	59-01	23 00	14 00	13 00	86-02
300	17-02	11 00	94-01	38 00	17 00	14 00	86-02

P=100 атм

	1	2	3	4	5	6	7
1	11-02	10-01	90-02	31-01	32-01	73-01	83-02
3	16-02	27-01	22-01	83-01	72-01	11 00	66-02
5	17-02	40-01	34-01	12 00	99-01	12 00	66-02
10	17-02	83-01	53-01	21 00	13 00	13 00	66-02
20	17-02	92-01	77-01	31 00	19 00	14 00	66-02
30	17-02	11 00	89-01	38 00	16 00	14 00	68-02
100	17-02	14 00	10 00	43 00	17 00	14 00	66-02
300	17-02	14 00	10 00	43 00	17 00	14 00	68-02
A	82-03	18 01	16 01	82 01	22 01	61 00	55-02
B	18-02	63-02	54-02	20-01	20-01	11 00	78-01
1	87-03	61-02	50-02	20-01	19-01	58-01	63-02
3	14-02	17-01	14-01	56-01	49-01	98-01	66-02
5	16-02	27-01	22-01	89-01	73-01	12 00	66-02
10	17-02	47-01	38-01	16 00	11 00	13 00	66-02
20	17-02	75-01	81-01	26 00	15 00	14 00	66-02
30	17-02	93-01	76-01	32 00	16 00	14 00	66-02
100	17-02	13 00	10 00	43 00	17 00	14 00	66-02
300	17-02	14 00	10 00	43 00	17 00	14 00	66-02

8	9	10	Сумма
95-06	24-06	10-06	29-05
14-05	38-06	21-06	40-05
18-05	47-06	30-06	61-05
22-05	65-06	50-06	83-05
28-05	93-06	86-06	11-04
32-05	12-05	12-05	13-04
44-05	26-05	28-05	23-04
62-05	57-05	57-05	44-04
70 06	62 01	14 00	49 09
59-05	10-05	10-06	88-05
75-06	20-06	65-07	21-05
12-05	30-06	14-06	38-05
15-05	38-06	19-06	49-05
19-05	50-06	32-06	67-05
24-05	69-06	53-06	88-05
28-05	84-06	72-06	10-04
40-05	16-05	18-05	17-04
54-05	35-05	40-05	30-04

8	9	10	Сумма
24-05	68-06	58-06	88-05
35-05	13-05	13-05	14-04
40-05	18-05	20-05	18-04
49-05	31-05	32-05	26-04
63-05	52-05	50-05	40-04
75-05	68-05	63-05	52-04
13-04	16-04	11-04	12-03
25-04	32-04	16-04	27-03
89 04	54 00	12-01	10 08
66-04	11-04	11-05	97-04
20-05	51-06	35-06	71-05
30-05	93-06	82-06	11-04
35-05	12-05	13-05	14-04
44-05	19-05	21-05	19-04
54-05	31-05	34-05	27-04
62-05	42-05	44-05	35-04
99-05	10-04	69-05	78-04
17-04	22-04	14-04	18-03

8	9	10	Сумма
37-05	14-05	14-05	15-04
54-05	32-05	32-05	26-04
65-05	48-05	44-05	37-04
87-05	78-05	66-05	59-04
12-04	12-04	93-05	94-04
16-04	16-04	11-04	13-03

30-04	34-04	16-04	31-03
50-04	56-04	16-04	71-03
10-04	17-00	38-02	38-07
20-03	34-04	34-05	30-03
32-05	98-06	87-06	12-04
46-05	20-05	20-05	19-04
55-05	28-05	30-05	25-04
71-05	47-05	47-05	38-04
96-05	70-05	71-05	62-04
11-04	10-04	88-05	82-04
21-04	24-04	14-04	20-03
39-04	45-04	16-04	46-03

8	9	10	Сумма
70-05	37-05	36-05	33-04
12-04	85-05	70-05	71-04
16-04	13-04	91-05	10-03
22-04	20-04	12-04	18-03
34-04	30-04	15-04	30-03
43-04	37-04	16-04	41-03
80-04	61-04	16-04	10-02
15-03	80-04	16-04	27-02
98-02	41-01	98-03	64-06
67-03	11-03	11-04	99-03
57-05	24-05	24-05	23-04
91-05	54-05	51-05	46-04
12-04	80-05	69-05	66-04
16-04	14-04	10-04	11-03
25-04	22-04	13-04	19-03
30-04	28-04	15-04	26-03
57-04	52-04	16-04	65-03
10-03	75-04	16-04	16-02

8	9	10	Сумма
17-04	11-04	83-05	94-04
31-04	22-04	13-04	22-03
42-04	29-04	15-04	34-03
66-04	42-04	16-04	58-03
10-03	56-04	16-04	10-02
13-03	64-04	16-04	15-02
26-03	82-04	16-04	47-02
47-03	83-04	16-04	11-01
12-02	10-01	25-03	12-06
20-02	33-03	35-04	29-02
12-04	69-05	60-05	60-04
23-04	16-04	11-04	14-03
30-04	22-04	13-04	20-03
44-04	34-04	16-04	35-03
66-04	48-04	16-04	62-03
86-04	57-04	16-04	87-03
18-03	79-04	16-04	24-02
35-03	83-04	16-04	64-02

8	9	10	Сумма
55-04	33-04	15-04	40-03
12-03	56-04	16-04	10-02
16-03	86-04	16-04	16-02
26-03	75-04	16-04	29-02
38-03	60-04	16-04	54-02
47-03	82-02	16-04	78-02
78-03	83-04	16-04	23-01
10-02	83-04	16-04	60-01
10 01	18-02	46-04	17 05
63-02	10-02	13-03	94-02
37-04	24-04	14-04	23-03
76-04	46-04	16-04	58-03
11-03	57-04	16-04	89-03
17-03	71-04	16-04	16-02
27-03	80-04	16-04	30-02
35-03	82-04	16-04	44-02
65-03	83-04	16-04	13-01
96-03	83-04	16-04	35-01

8	9	10	Сумма
20-03	66-04	16-04	18-02
39-03	78-04	16-04	48-02
50-03	81-04	16-04	76-02
68-03	83-04	16-04	14-01
88-03	83-04	16-04	26-01
98-03	83-04	16-04	37-01
12-02	83-04	16-04	99-01
12-02	83-04	16-04	22 00
13 00	33-03	88-05	34 04
17-01	28-02	43-03	25-01
13-03	59-04	16-04	10-02
28-03	78-04	16-04	27-02
38-03	81-04	16-04	42-02
55-03	83-04	16-04	79-02
76-03	83-04	16-04	15-01
88-03	83-04	16-04	22-01
12-02	83-04	16-04	62-01
12-02	83-04	16-04	15 00

8	9	10	Сумма
58-03	82-04	16-04	16-04
68-03	83-04	16-04	27-01
10-02	83-04	16-04	41-01
11-02	83-04	16-04	71-01
12-02	83-04	16-04	12 00
12-02	83-04	16-04	16 00
12-02	83-04	16-04	34 00
12-02	83-04	16-04	59 00
17-01	55-04	15-05	75 03
44-01	74-02	17-02	70-01
44-03	82-04	16-04	57-02
76-03	83-04	16-04	15-01

92-03	83-04	16-04	24-01
11-02	83-04	16-04	44-01
12-02	83-04	16-04	78-01
12-02	83-04	16-04	11 00
12-02	83-04	16-04	25 00
12-02	83-04	16-04	49 00

8	9	10	Сумма
10-02	83-04	16-04	44-01
12-02	83-04	16-04	10-00
12-02	83-04	16-04	14 00
12-02	83-04	16-04	23 00
12-02	83-04	16-04	34 00
12-02	83-04	16-04	43 00
12-02	83-04	16-04	73 00
12-02	83-04	16-04	94 30
36-02	13-04	37-06	68 02
10-00	17-01	58-02	18 30
90-03	83-04	16-04	27-01
12-02	83-04	16-04	66-01
12-02	83-04	16-04	97-01
12-02	83-04	16-04	16 00
12-02	83-04	16-04	26 00
12-02	83-04	16-04	33 00
12-02	83-04	16-04	63 00
12-02	83-04	16-04	91 00

8	9	10	Сумма
12-02	83-04	16-04	16 00
12-02	83-04	16-04	32 00
12-02	83-04	16-04	43 00
12-02	83-04	16-04	60 00
12-02	83-04	16-04	78 00
12-02	83-04	16-04	87 00
12-02	83-04	16-04	10 01
12-02	83-04	16-04	10 01
78-03	29-05	86-07	14 02
23 00	42-01	22-01	54 00
12-02	83-04	16-04	12 00
12-02	83-04	16-04	24 00
12-02	83-04	16-04	34 00
12-02	83-04	16-04	50 00
12-02	83-04	16-04	69 00
12-02	83-04	16-04	80 00
12-02	63-04	16-04	98 00
12-02	83-04	16-04	10 01













